



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090531-C

**Mode:** Highway

**Status:** Submitted

### NC-54

**From/Cross Street:** NC 751

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** SR 1118 (Fayetteville Road)

**Project Category:** Regional Impact

**Length:** 1.73

**TIP#:** U-5324C

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$21,600,000

#### Description:

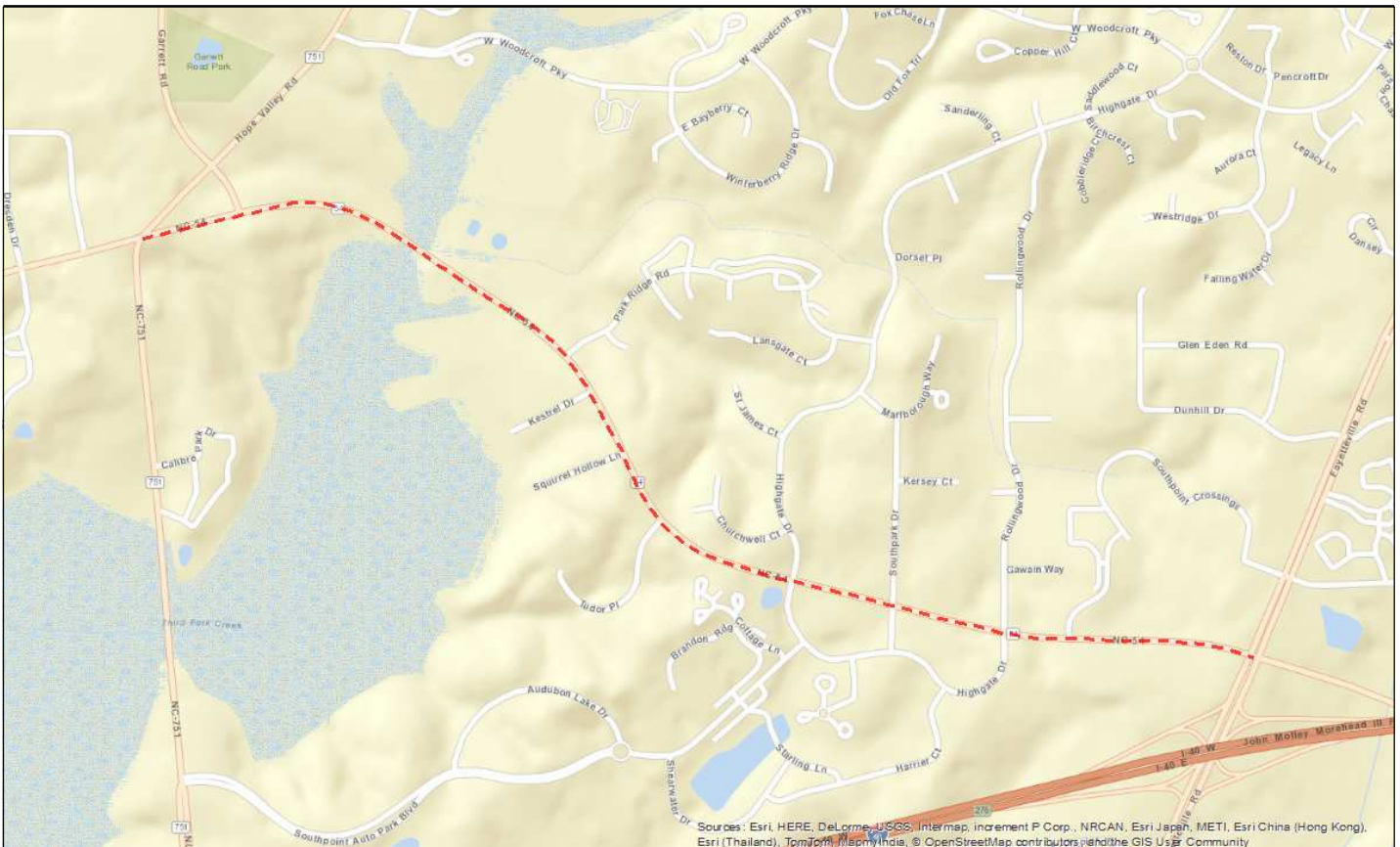
Widen to Multi-Lanes with Bicycle, Pedestrian, and Transit Accommodations

**Division(s):** Division 5

**County(s):** DURHAM

**MPOS(s)/RPO(s):** Durham Chapel Hill Carrboro MPO

#### Project Location



**Statewide Mobility Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
<b>Totals: Weight: 0% Weighted Score: 0</b>	N/A	N/A

**Regional Impact Total Score: 60.46**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 81.31	Percent: 15%	Percent: 15%
Safety (10%) 74.53	Points: 100	Points: 100
[Travel Time] Benefit/Cost (25%) 8.12		
Accessibility / Connectivity (10%) 6.46		
<b>Totals: Weight: 70% Weighted Score: 30.46</b>		

**Division Needs Total Score: 75.34**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%) 81.31	Percent: 25%	Percent: 25%
Safety (10%) 74.53	Points: 100	Points: 100
[Travel Time] Benefit/Cost (20%) 8.12		
<b>Totals: Weight: 50% Weighted Score: 25.34</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	1.73
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	1
Roadway has Curb & Gutter?	No
Volume (AADT):	19371.86
Capacity:	15800
Volume/Capacity Ratio:	1.23
% Autos:	98%
% Trucks:	2%
Truck Volume:	291.98
Crash Density:	99.83
Crash Severity:	33.24
Critical Crash Rate:	90.54
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	17
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	97
Actual Congested Speed:	34
Travel Time Index:	1.32

**Project Benefits**

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.73
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	7924598.77
Travel Time Savings for 30 Years (Autos):	7805156.68
Travel Time Savings for 30 Years (Trucks):	119442.09
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 5	100%	100	100
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>100</b>	<b>100</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Durham Chapel Hill Carrboro MPO	100%	100	100
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>100</b>	<b>100</b>

**Project Cost and Source**

Construction Cost:	\$13,200,000	TIP Unit
Right-of-Way Cost:	\$5,900,000	TIP Unit
Utilities Cost:	\$2,500,000	TIP Unit
Total Project Cost:	\$21,600,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$21,600,000</b>	